Title (en)
LDPC coding and decoding for channels with phase slip

Title (de)
LDPC Codierung und Decodierung für Kanäle mit Phasenverschiebung

Title (fr)
Codage et décodage LDPC pour canal à glissement de phase

Publication
EP 3001571 A1 20160330 (EN)

Application
EP 14186535 A 20140926

Priority
EP 14186535 A 20140926

Abstract (en)
Low-complexity coding schemes are disclosed that are resilient against sporadic phase slip events and based on a new phase-slip transparent construction of LDPC codes based on a quasi-cyclic code construction, called block symmetric codes and an outer differential coding. Code constructions for multiple modulation formats are presented.

IPC 8 full level
H03M 13/03 (2006.01); **H03M 13/00** (2006.01); **H03M 13/11** (2006.01); **H03M 13/27** (2006.01); **H03M 13/29** (2006.01); **H04L 1/00** (2006.01)

CPC (source: EP)
H03M 13/033 (2013.01); **H03M 13/116** (2013.01); **H03M 13/1168** (2013.01); **H03M 13/1177** (2013.01); **H03M 13/27** (2013.01); **H03M 13/29** (2013.01); **H03M 13/336** (2013.01); **H03M 13/6325** (2013.01); **H04L 1/0057** (2013.01); H03M 13/2957 (2013.01); H04L 1/005 (2013.01); H04L 1/0065 (2013.01); H04L 27/34 (2013.01)

Citation (applicant)
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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DOCDB simple family (application)
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